



PIPER RUDNICK LLP
1200 NINETEENTH STREET, NW
WASHINGTON, DC 20036-2412
TELEPHONE: 202-861-3900
FACSIMILE: 202-223-2085

RECEIVED

JUL 29 2002

TECH CENTER 1600/2900

DOCKET NO.: 9491-058-27

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Re: Serial No.: 10/073,077
Applicant(s): Thomas R. GADEK, et al.
Filing Date: February 12, 2002
For: IDENTIFICATION OF NON-COVALENT COMPLEXES BY MASS
SPECTROMETRY
Group Art Unit: 1645
Examiner:

SIR:

Attached hereto for filing are the following papers:

**INFORMATION DISCLOSURE STATEMENT
FORM PTO-1449
CITED DOCUMENTS (19)**

Our check in the amount of \$ 0 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R. 1.136 for any necessary extension of time to make the filing of the attached documents timely, please charge or credit the difference to Deposit Account No. 50-1442. Further, if these papers are not considered timely filed, then a request is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

PIPER RUDNICK LLP

Steven B. Kelber
Attorney of Record
Registration No.: 30,073

7/25/02

Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION: Thomas R. GADEK et al.

GROUP ART UNIT: 1645

SERIAL NUMBER: 10/073,077

EXAMINER:

FILED: February 12, 2002

FOR: IDENTIFICATION OF NON-COVALENT COMPLEXES BY MASS SPECTROMETRY

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicant(s) wish(es) to disclose the following information.

REFERENCES

- ☒ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. Copies of the listed documents are attached, where required, as are either statements of relevancy or any readily available full or partial English translations of any non-English-language documents.

RELATED CASES

- ☐ Attached is a list of Applicant's(s') pending applications and issued patents which may be related to the present application. Copies of the documents, where required, are attached along with Form PTO-1449.

CERTIFICATION

The undersigned certifies that

- ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign or international patent office in a counterpart foreign or international application for the first time (to the knowledge of the undersigned, having made reasonable inquiry) not more than three months prior to the filing of this statement.
- ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign or international patent office in a counterpart foreign or international application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement.

BASIS FOR CONSIDERATION

This Information Disclosure Statement is filed:

- ☐ without fee and within three months of the filing date of the application.
- ☐ without fee and within three months of the date of entry of the U.S. national stage.
- ☒ without fee and before the mailing date of a first Office Action on the merits (to the knowledge of the undersigned).
- ☐ without fee and with the appropriate certification above.
- ☐ without fee and with a new CPA application.
- ☐ without fee and with a Request for Continued Examination.
- ☐ with fee and before the mailing date of any of a Final Office Action, Notice of Allowance or an action that otherwise closes prosecution (to the knowledge of the undersigned).
- ☐ with fee, appropriate certification above, and before payment of the Issue Fee.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 50-1442.

Respectfully submitted,

PIPER RIDNICK LLP

Steven B. Kelber
Attorney of Record
Registration No. 30,073

7/26/02
Date
1200 Nineteenth Street, N.W.
Washington, DC 20036-2412
Telephone No. (202) 861-3900
Facsimile No. (202) 223-2085

RECEIVED

JUL 29 2002

TECH CENTER 1600/2900

Form PTO 1449 U.S. DEPARTMENT OF
(Modified) COMMERCE
PATENT AND TRADEMARK
OFFICE

DOCKET NO.

9491-058-27

SERIAL NO.

10/073,077

APPLICANT

Thomas R. GADEK, et al.

FILING DATE

February 12, 2002

GROUP ART UNIT

1645

LIST OF REFERENCES CITED BY APPLICANT
(Use Several Sheets if Necessary)

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|---------------------|----|--------------------|---------|---------------|-------|--------------|-------------------------------|
| | AA | 5,698,401 | 12/1997 | FESIK, et al. | | | 11/14/95 |
| | AB | 5,989,827 | 11/1999 | FESIK, et al. | | | 10/31/96 |
| | AC | 6,335,155 | 01/2002 | WELLS, et al. | | | 06/26/98 |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION YES NO | |
|--|----|--------------------|---------|---------|-----------------------|--|
| | AD | WO99/49314 | 09/1999 | WIPO | X | |
| | AE | WO00/00823 | 01/2000 | WIPO | X | |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|--|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | AF | Brown, "Future Pathways For Combinatorial Chemistry", Molecular Diversity, 2:217-222 (1996). |
| | AG | Cheng, X., et al., "Using Electrospray Ionization FTICR Mass Spectrometry To Study Competitive Binding Of Inhibitors To Carbonic Anhydrase", J. Am. Chem. Soc., 117:8859-60 (1995). |
| | AH | Gallop, et al., "Applications Of Combinatorial Technologies To Drug Discovery", J. Med. Chem., 37:1233-51 (1994). |
| | AI | Ganem, B., et al., "Detection Of Noncovalent Receptor Ligand Complexes By Mass Spectrometry", J. Am. Chem. Soc., 113:6294-6 (1991). |
| | AJ | Gao, J., et al., "Screening Derivatized Peptide Libraries For Tight Binding Inhibitors to Carbonic Anhydrase II by Electrospray Ionization-Mass Spectrometry", J. Med. Chem., 39:1949-55 (1996). |
| | AK | Hajduk, P.J., et al., "Discovery Of Potent Non Peptide Inhibitors Of Stromelysin Using SAR By NMR", J. Am. Chem., 119:5818-27 (1997). |
| | AL | Hu, P., et al., "Calcium Stoichiometry Determination For Calcium Binding Proteins By Electrospray Ionization Mass Spectrometry", Anal. Chem., 66:4190-4 (1994). |
| | AM | Jorgensen, T.J.D., et al., "Direct Determination Of Solution Binding Constants For Noncovalent Complexes Between Bacterial Cell Wall Peptide Analogues And Vacomycin Group Antibiotics By Electrospray Ionization Mass Spectrometry", Anal. Chem., 70:4427-32 (1998). |

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO 1449

(Modified)

U.S. DEPARTMENT OF
COMMERCE
PATENT AND TRADEMARK
OFFICE

DOCKET NO.

9491-058-27

SERIAL NO.

10/073,077

RECEIVED

APPLICANT

Thomas R. GADEK, et al.

JUL 29 2002

TECH CENTER 1600/290

LIST OF REFERENCES CITED BY APPLICANT
(Use Several Sheets if Necessary)

FILING DATE

February 12, 2002

GROUP ART UNIT

1645

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN | Loo, J.A., "Studying Noncovalent Protein Complexes By Electrospray Ionization Mass Spectrometry", Mass Spectrometry Reviews, 16:1-23 (1997). |
| AO | Marcy, A. I., et al., "Human Fibroblast Stromelysin Catalytic Domain: Expression, Purification, And Characterization Of A C-Terminally Truncated Form", Biochemistry, 30:6476-83 (1991). |
| AP | Matayoshi, E., et al., "Novel Fluorogenic Substrates For Assaying Retroviral Proteases By Resonance Energy Transfer", Science, 247:954-8 (1990). |
| AQ | Olejinczak, E.T., et al., "Stromelysin Inhibitors Designed From Weakly Bound Fragments: Effects Of Linking And Cooperativity", J. Am. Chem. Soc., 119:5828-32 (1997). |
| AR | Shuker S.B., et al., "Discovering High-Affinity Ligands For Proteins: SAR By NMR", Science, 274:1531-1534 (1996). |
| AS | Corey, E.J., "General Methods For The Construction Of Complex Molecules", Pure Appl. Chem., 14:19-37 (1967). |

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.